NOOK SELECT SWITCH OFF 1 SWITCH
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RMS/D&C - 1

DATE:

" '	NODE SELECT	I MODE:		CRITICALITY HATTOMACE FOR ACCEPTANCE
	P/M HE 452- 0093-5106 ED 92020 SHEET 2	SHITCH CONTACT CONTINUOUSLY ON DIRECT GRIVE CRUSE(S): (I) SHORTED BIRICT BIRICT CONTACT ON 28W HIPER.	MO EFFECT FOR THIS FAILURE. MO EFFECT IN DIRECT IN DIRECT IN PARK HITH BRANE SELECT ON AND SUBSEQUENT FAILURES TO SINGLE/DIRECT SUITCH CAUSING UNCORNANDED MOTION. MORST CASE LOSS OF RISSION SUBSEQUENT FAILURE MAY CAUSE UNEXPECTED MOTION REQUIRED REDUNDANT PATHS REHAINING SINGLE, BACKUP, AMPA	ACCEPTANCE TESTS THE HARDWARE PIEM IS SUBJECTED TO THE FOLLOWING ACCEPTANCE ENVIRONMENTAL TESTS AS PART OF THE DEC PANEL ASSEMBLY. O VIBRATION: LEVEL AND DURATION - REFERENCE TABLE I O THERRAL: *110 DEGREES F TO PLUS 10 DEGREES F (2 CYCLES - 9.5 MRS/CYCLE.) THE DEC PANEL ASSEMBLY IS FURTHER TESTED AS PART OF THE RMS STSTER TESTS (TPSTB AMS STRONGACK TEST AND TESTS CLAT FLOOR TEST) AMICH VERIFIES THE ABSENCE OF THE FAILURE MODE. QUALIFICATION TESTS THE SUBJECT ITEM HAS BEEN QUALIFIED FOR ORBITER USE. THE DEC PANEL ASSEMBLY HAS BEEN SUBJECTED TO THE FOLLOWING QUALIFICATION TEST ENVIRONMENTS. O VIBRATION: LEVEL AND DURATION - REFERENCE TABLE I O SHOCK: 20G/11 MS - 3 AXES (6 DIRECTIONS) O THERRAL: 110 BEGREES F TO -23 DEGREES F (12 MRS PER CYCLE) (6 CYCLES) O HUMIDITY: 95% (120 DEGREES F TO B2 DEGREES F CYCLE IN 16 MRS) 10 CYCLES TOTAL. O ENC: MIL-STD-461 AS MODIFIED BY SL-E-0002 (TEST CEO), CEO2, CEO3, CSO1 (BC/AC), CEO3, CSO1 (BC/AC), CEO3, CSO1, RSO4) FLIGHT CHECKOUT FLIGHT CHECKOUT

CRITICAL ITEMS LIST

FHEA	HIRF AND T	ASS'T NONENCLATURE:	ASS'Y P/N: STINDETST
MEF. MEV.	DRAWING REF. DESIGNATION	FAILURE MODE FAILURE EFFECT AND ON CAUSE END ITEM	HOUR / FUNC. 2/IND RAFIOMALE FOR ACCEPTANCE CRETICALITY
	P/M ME 452- 0093-5106 ED 92020 SHEET 2	MODE: SMITCH CONTINCUSLY ON DIRECT ON AND ON AND SUBSIQUENT FAILURE. ON AND SUBSIQUENT FAILURES TO SUBSIQUENT FAILURES TO CAUSING UNCOMBANDED MOTION. WORST CASE UNCOMBANDED MOTION. SUBSIQUENT FAILURE UNCOMBANDED MOTION. SUBSIQUENT FAILURE ON AND SUBSIQUENT FAILURE ON AND SUBSIQUENT FAILURE ON AND SUBSIQUENT FAILURE ON EFFECT ON DIRECT UNITED ON AND UNCOMBANDED MOTION. SUBSIQUENT FAILURE ON EFFECT ON DIRECT UNITED ON AND ON AND SUBSIQUENT FAILURE ON EFFECT ON OFFICET ON DIRECT UNITES ON AND SUBSIQUENT FAILURE ON EFFECT ON THIS FAILURE ON EFFECT ON OFFICET ON DIRECT UNITES ON AND SUBSIQUENT FAILURE ON EFFECT ON OFFICET ON DIRECT UNITES ON AND SUBSIQUENT FAILURE ON EFFECT ON DIRECT UNITES ON AND SUBSIQUENT FAILURE ON EFFECT ON OFFICET ON AND SUBSIQUENT FAILURE ON EFFECT ON OFFICET ON OFFICET ON AND SUBSIQUENT FAILURE ON AND SUBSIQUENT FAILURE ON EFFECT ON OFFICET ON AND SUBSIQUENT FAILURE FAILURE FAILURE FAILURE FAILURE ON AND SUBSIQUENT FAILURE	HERNETICALLY SEALED ROTARY SWITCHES ARE PROCURED TO ROCKWELL SPECIFICATION NO-522-0049. AS ACQUIRED BY CAE SPEC, PS BYBLO. CAE PART NO. PSSPBBO. QUALIFICATION AND ACCEPTANCE TESTING OF SWITCHES IS PERFORMED TO RY. SPEC. NC452-0049. RECEIVING INSPECTION VERIFIES THAT SWITCHES RECEIVED ARE AS IDENTIFIED IN THE PROCURENENT OCCUMENTS. THAT NO PHYSICAL DAMAGE HAS OCCURRED TO SWITCHES DURING SHIPMENT THAT THE RECEIVED ON THE PROVIDE ADEQUATE TRACEABILITY INFORMATION AND ACCEPTANCE TEST DATA IDENTIFIES ACCEPTANCE PARTS. PARTS ARE INSPECTED THROUGHOUT HANUFACTURE AND ASSEMBLY AS APPROPRIATE TO THE PANUFACTURING STAGE COMPLETED. THESE INSPECTIONS INCLUDE. COMPONENT HOUNTING TO FROMT PAMEL INSPECTIOM. CRIMPING OF CONTACTS TO SWITCH COMMECTOR. WHER ROUTING, STRESS RELIEF OF WIRES STC. OPPERATORS AND INSPECTORS TRAINED AND CERTIFIED FOR CHAPTING AND SOLDERING OPPRATIONS TO CAE SPEC TO DOIGS. OI AND MASA MHB SODO. 4 (JA) STANDARD. AS MODIFIED BY JSC OBBOON. PRE-TEST INSPECTION OF DREE PAMEL ASSY INCLUDES AN AUDIT OF LOWER TIER INSPECTION COMPLETION AS BUILD COMPLEMENTION VERIFICATION TO AS DESIGN TYC. (SPAR/GOVERNMENT REP. WALDATION THE SPECTION POINT) A TEST READINESS REVIEW (THR) MHICH INCLUDES VERIFICATION OF TEST PERSONNEL, LEST DOCUMENTS, LEST EQUIPMENT CALIBRATION/VALIDATION STATUS AND MARDIARE CONFIGURATION IS CONVENED BY VALIDATION STATUS. STORMED THE STATUS OF ANY FORMAL TESTING (ACCEPTANCE OR QUALIFICATION). A TEST READINESS REVIEW (THR) MHICH INCLUDES VERIFICATION OF TEST PERSONNEL, LEST DOCUMENTS, LEST EQUIPMENT CALIBRATION/VALIDATION STATUS. AND MARDIARE CONFIGURATION IS CONVENED BY VALIDATION STATUS. STATUS OF ANY FORMAL TESTING (ACCEPTANCE ON QUALIFICATION). A TEST READINESS REVIEW (THR) MHICH INCLUDES VERIFICATION OF THE PROFINENCE OF THE CONTINUENT OF THE STATUS OF ANY FORMAL TESTING (ACCEPTANCE OR QUALIFICATION). A TEST READINESS REVIEW (THR) WHICH PROFINENT OF THE STATUS OF ANY FORMAL TESTING (ACCEPTANCE OR QUALIFICATION). A TEST READINESS REVIEW (THR) WHICH PROFINENT OF THE STATUS OF ANY FORMAL

CRITICAL ITEMS LIST

PROJECT: SAMS ASS'Y MONENCEATURE: DEC PAREL SYSTEM: DOC SUBSYSTEM SHEET: MARE OTY E DRAWING REF. DESIGNATION PHEA REF. PAPLUME HODE TAILURE EFFECT HOMM / FUNC. 2/180 CRIFICALITY REV. CAUSE ON TEN NATIONALE FOR ACCEPTANCE 41 ŧ MODE SELECT MODE: NO EFFECT SHIFCH OTY | P/N HE 452-0093-5106 ED 92020 SHEEF 2 FAILURE HISTORY FOR THIS CONTACT CONTINUOUSLY NO EFFECT THE FOLLOWING FAILURE ANALYSIS REPORT(S) ARE RELEVANT: ON BIRECT IN DIRECT UNLESS AMS IN PARK WITH BRANE SELECT FAR 4010: EAUSE(S): (1) SHOATED DIRECT ORIVE S/M 004 FEB 80 OH AND SUBSEQUENT DESCRIPTION FAILURES TO SIMPLE/DIRECT DETENT FAILURE TO INADEQUATE MELDING CONTACT SHITCH ON 25V WIPER. CAUSING CORRECTIVE ACTION UNCOMMANDED MOTION. REPAIRED, TRAINED OPERATORS WORST CASE LOSS OF MISSION, SUBSEQUENT FAILURE MAY CAUSE UNEXPECTED
ROTTON,
UNANNUNCIATED
CREW ACTION
REQUIRED. REDUNDANT PATHS REMAINING SINGLE , BACKUP, AUTO AND MANUAL PREPARED BY: MFMG SUPERCEBING DATE: 21 OCT 87

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	HATE:	
RMS/D&C - 4		

CRITICAL ITEMS LIST

REV.

NAME OTY E DRAWING RÉF. DESIGNATION

MODE SELECT SWITCH GTY I P/M ME 452-0091-5104

ED 92020 SHEET 2

FAILURE HODE

AND

CAUSE

CONTINUOUSLY

ON DIRECT BRIVE

MODE : SWITCH

CONTACT

PHEA ALF.

41

PROJECT: SRMS ASS'Y NOMENCLATURE: DIC PANCE

FAILURE EFFECT

ON END ITEM

NO EFFECT

FOR THIS FAILURE.

IN DIRECT UNLESS AMS IN PARK WITH BRAKE SELECT

SYSTEM: DAC SUBSYSTEM ASS'Y P/N: STIADE SET SHEET: HOWA / FUNC. 2/148 Criticality MATIONALE FOR ACCEPTANCE OPERATIONAL EFFECTS MONE WITH THIS FAILURE. NO EFFECT IS DIRECT UNLESS RNS IN PARK WITH BRAKE SELECT ON AND SUBSEQUENT FAILURES TO SINGLE/DIRECT SMITCH CAUSING UNCOMMANDED MOTION. ALL MODES OPERATIONAL, FOR SUBSEQUENT FAILURES SINGLE AND BACKUP AVAILABLE. AUTOBRAKES WILL STOP ARS HOTION FOR SUBSEQUENT FAILURE. CREW ACTION

			CAUSE(S): (1) SHORTED PARETY BRIVE CONTACT ON 28Y MIPER.	BMAKE SELECT OR AND SUBSEQUENT FAILURES TO SINGLE/DIRECT SWITCH CAUSHITCH CAUSHINDED MORST CASE LOSS OF MISSION. SUBSEQUENT FAILURE MAY CAUSE UNEXPECTED MOTION. UNANHUNCIATED CREW ACTION REQUIRED. REDUNDANT PATHS REPARMENC SANGLE, BACKUP, AUTO AND	WILL STOP ARS HOTION FOR SUBSEQUENT FAILURE. CREM ACTION HOME. CREM TRAINING HOSSION CONSTRAINTS MONE. SCREEN FAILURES B: MO ORBITEN AUNUNCIATION ON DISPLAY. OHRSD OFFLING OPERATE ROTARY MODE SELECT SHITCH IN ALL POSITIONS. VERIFY CORRECT BITS IN DATA BUS. OHRSD ONLINE INSTALLATION MONE. OHRSD ONLINE TURNAROUND HOME.	
PAEPARED BY	: MT NG	SUPER	CEDING DATE: 21 (DCT 97 APPROV	DATE:	